



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Assistant Commissioner For Patents  
Box Patent Application  
Washington, D. C. 20231

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): WALTER, Bruno  
Title: **ACOUSTIC FLOW PULSING APPARATUS AND METHOD FOR  
DRILL STRING**

Enclosed are:

- ☒ Application Data Sheet;
- ☒ 30 pages of specification, 5 pages of claims, abstract and an executed Combined Declaration and Power of Attorney;
- ☒ 16 sheets of drawings;
- ☒ Assignment;
- ☒ Disclosure Statement with Form PTO-1449 and copies of documents listed thereon;
- ☒ Recordation Form Cover Sheet; and
- ☒ Return Receipt Postcard

Applicant claims small entity status (*see 37 CFR 1.27*).

<b><u>CLAIMS AS FILED</u></b>				
<u>For</u>	<u>Number</u>	<u>Number</u>	<u>Rate</u>	<u>Basic Fee</u>
	<u>Filed</u>	<u>Extra</u>		
Total Claims	19 - 20 =	0	\$18	\$ 750.00
Independent Claims	2 - 3 =	0	\$84	\$ 0.00
Multiple Dependent Claim Fee			\$280	\$ 0.00
BASIC FEE ( <i>37 CFR 1.16</i> )				\$ 750.00
<i>Reduction by 50% for filing by small entity (Note 37 CFR 1.27)</i>				\$-375.00
<b>TOTAL FILING FEE</b>				<b>\$ 375.00</b>

- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the filing of this application herewith, or credit over-payment, to Account No. 02-1037.
- ☒ The Commissioner is hereby authorized to charge the indicated fees of **US\$375.00** or credit over-payment, to Account No. 02-1037.
- ☒ Please direct all correspondence and telephone calls to:

**Customer Number: 000720**

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Respectfully submitted,  
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By:

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Date: 7 July 2003

